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WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES, AND
TOXIC SUBSTANCES

Memorandum

DATE: October 7, 2008

SUBJECT: Transmission of Review and Reference Materials for the
October 28 – 31, 2008 Session of the FIFRA Scientific Advisory Panel (SAP)
Entitled "Assessing Ecological Risks of Pesticides with Persistent, Bioaccumulative
and Toxic Characteristics"

FROM: Donald Brady, Director
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TO: Myrta Christian, Designated Federal Official
FIFRA Scientific Advisory Panel
Office of Science Coordination and Policy (7201M)

A hard copy of a journal article and compact discs containing the documents for the October 28 - 31, 2008 FIFRA SAP session: "Assessing Ecological Risks of Pesticides with Persistent, Bioaccumulative and Toxic Characteristics" are attached. These documents include the White Paper, which is being provided for the SAP's review, along with reference materials.

These documents do not contain any information protected under the statute as Confidential Business Information (CBI). However, the Arnot and Gobas paper is protected by copyright. The Environmental Fate and Effects Division has obtained permission to photocopy and distribute this copyrighted article for purposes of this SAP review only.

The CDs attached contain the documents identified in Appendix 1. We have provided access to additional references in Appendix 2, which provides links to the ecological test guidelines.

Please feel free to call upon us if you have any questions or need additional references. Please note that we would have to seek permission to photocopy and distribute any journal articles.

Appendix 1. List of Review and Reference Documents

Review Document	File Name	Source	Author(s)	Date
White Paper on Methods for Assessing Ecological Risks of Pesticides with Persistent, Bioaccumulative and Toxic Characteristics	SAP_PBT_White_Paper_Final_Oct_7_08d.pdf	Disk 1	US EPA	October 7, 2008
Appendix C, Part 2 (PRZM/EXAMS Output for Example Pesticides)	Appendix C_Part 2.pdf	Disk 1	US EPA	October 7, 2008
Reference Documents			Author(s)	Date
Overview of the Ecological Risk Assessment Process in the Office of Pesticide Programs, US Environmental Protection Agency	Overview Doc 2004	Disk 2	US EPA	January 23, 2004
PRZM-3, A Model for Predicting Pesticide and Nitrogen Fate in the Crop Root and Unsaturated Soil Zones: Users Manual for Release 3.12.2	PRZM.pdf	Disk 2	US EPA	September 2005
Exposure Analysis Modeling System (EXAMS): User Manual and System Documentation	ExamsRevG. Pdf	Disk 2	US EPA	May 2004
User Manual for EXPRESS, the "EXAMS-PRZM Exposure Simulation Shell"	Express.pdf	Disk 2	US EPA	September 2006
Soil and Water Assessment Tool Theoretical Documentation, Version 2005	SWAT_Theory. Pdf	Disk 2	USDA	January 2005
Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health	Methodology	Disk 2	US EPA	December 2000
OECD GUIDELINE - Hydrolysis as a Function of pH	111EHydrolysis Final.pdf	Disk 2	OECD	April 13, 2004
OECD GUIDELINE - Aerobic and Anaerobic Transformation in Aquatic Sediment Systems	308 Aerobic and Anaerobic Transformation in Aquatic Sediment Systems.pdf	Disk 2	OECD	April 24, 2002
OECD GUIDELINE - Aerobic and	307 Aerobic and	Disk 2	OECD	April 24,

Review Document	File Name	Source	Author(s)	Date
Anaerobic Transformation in Soil	Anaerobic Transformation in Soil.pdf			2002
OECD GUIDELINE – Leaching in Soil Columns	312 Soil Column Leaching.pdf	Disk 2	OECD	April 13, 2004
OECD GUIDELINE - Adsorption - Desorption Using a Batch Equilibrium Method	106 Adsorption Desorption Using a Batch Equilibrium Method.pdf	Disk 2	OECD	January 21, 2000
OECD GUIDELINE - PROPOSAL FOR UPDATING GUIDELINE 305 Bioconcentration: Flow-through Fish Test	305 Bioconcentration Flowthrough Fish Test.pdf	Disk 2	OECD	June 14, 1996
NAFTA Guidance Document For Conducting Terrestrial Field Dissipation Studies	Terrestrial_field_dissipation_guidance.pdf	Disk 2	US EPA and PMRA	March 31, 2006
Pesticide Assessment Guidelines, Subdivision N, Chemistry Requirements, Environmental Fate	Subdivision N_Pesticide Assessment Guidelines.pdf	Disk 2	US EPA	August 30, 1982
A Food Web Bioaccumulation Model for Organic Chemicals in Aquatic Ecosystems. Environmental Toxicology and Chemistry 23(1):2343-2355.	-----	Hard Copy	Arnot, J.A. and A.P.C. Gobas	2004
USEPA Science Advisory Board Consultation Document Proposed Revisions to Aquatic Life Guidelines Tissue-Based Criteria for “Bioaccumulative” Chemicals	Aquatic Life Criteria Guidelines_Tissue_08-26-05.pdf	Disk 1	USEPA, Office of Water	2005
CEMC. 2007. Users Guide: Canadian Environmental Modeling Centre Water Quality Model and the Simon Fraser University Food Web Model	AGRO_UserGuide.pdf	Disk 1	Canadian Environmental Modeling Center	September 11, 2007

Review Document	File Name	Source	Author(s)	Date
PRZM-AGRO SHELL VERSION 1.2f RELEASE AND INSTALLATION NOTES	PA5releasenotes.pdf	Disk 1	Canadian Environme ntal Modeling Center	January 24, 2008

Appendix 2: Links to the Test Guideline Reference Documents

1. OPPTS Ecological Effects Test Guidelines:

If a Panel member would like to review any of the ecological effects test guidelines, the following link may be used:

[850 - Ecological Effects Test Guidelines](#)

2. USDA Agricultural Non-Point Source Pollution Model (AGNPS):

http://www.wsi.nrcs.usda.gov/products/w2q/h&h/tools_models/agnps/index.html

3. USEPA Water Quality Analysis Simulation Program (WASP) Model:

<http://www.epa.gov/ATHENS/research/modeling/wasp.html>

4. 2006 Science Advisory Board Response to EPA's Proposed Revisions to Water Quality Criteria Guidelines (includes SAB response to Tissue-based Aquatic Life Criteria)

USEPA. 2006. EPA Science Advisory Board (SAB) Consultation on a Proposed Framework for Revising the Guidelines for Deriving Water Quality Criteria for Protection of Aquatic Life. EPA-SAB-CON-06-004. Office of the Administrator, Science Advisory Board, March 8, 2006

[http://yosemite.epa.gov/sab/sabproduct.nsf/784EDE989ABDFC0B85257142006BBDCCD/\\$File/sab-con-06-004.pdf](http://yosemite.epa.gov/sab/sabproduct.nsf/784EDE989ABDFC0B85257142006BBDCCD/$File/sab-con-06-004.pdf)